

IN THE CLAIMS

Applicant submits below a complete listing of the current claims, with insertions, if any, indicated by underlining and deletions, if any, indicated by strikeouts and/or double bracketing.

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Listing of the Claims

1. (Original) A computer-readable medium having computer-executable instructions for performing steps for a correspondent host to provide mobility support for communications with a mobile host, the steps comprising:

10 receiving, by a mobility service of the correspondent host, a request from a first application on the correspondent host to set up a communication connection with a second application on the mobile host, the mobility service being implemented in an application programming interface (API) layer of an operating system of the correspondent host;

15 calling, by the mobility service, a session establishment service of the correspondent host implementing a session establishment protocol to establish a session with the mobile host;

 establishing, by the session establishment service, a session with the mobile host;

 setting up, by the mobility service, a communication connection under a transport protocol for communications between the first and second applications;

20 obtaining, by the session establishment service, a notice through operation of the session establishment protocol that the mobile host has moved to a new address;

 reestablishing, by the session establishment service, a session with the mobile host for the new address of the mobile host; and

 resetting, by the mobility service, a communication connection for the new address of the mobile host.

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2. (Currently Amended) A computer-readable medium as in claim 1, comprising further computer-executable instructions for the correspondent host to ~~performs~~ perform the steps of:

 retrieving buffered communication data for the communication connection between the first and second applications prior to resetting the communication connection; and

sending the retrieved buffered communication data over the reset communication channel for the new address of the mobile host.

3. (Currently Amended) A computer-read medium as in claim 1, comprising further computer-executable instructions for the correspondent host to ~~performs~~ perform the step of tunneling communication data to the mobile host using the new address of the mobile host before completing the step of resetting.
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4. (Original) A computer-readable medium as in claim 1, wherein the session establishment protocol is the Session Initiation Protocol.
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5. (Original) A computer-readable medium as in claim 1, wherein the transport protocol is the TCP.
6. (Original) A computer-readable medium as in claim 5, wherein the transport protocol is the UDP.
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7. (Original) A computer-readable medium as in claim 1, wherein the first application identifies the second application by a name in the request to form a communication connection.
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8. (Original) A computer-readable medium having computer-executable instructions for performing steps for a correspondent host to provide mobility support for communications between a first application on the correspondent host with a second application on a mobile host over an existing session and an existing communication connection, the steps comprising:
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- receiving, by a session establishment service of the correspondent host implementing a session establishment protocol, a notice through operation of the session establishment protocol that the mobile host has moved to a new address;
- reestablishing, by the session establishment service, a session with the mobile host for the new address of the mobile host; and

resetting, by a mobility service, a communication connection for the new address of the mobile host for communications between the first and second applications, the mobility service being implemented in an application programming interface (API) layer of an operating system of the correspondent host.

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9. (Currently Amended) A computer-readable medium as in claim 8, comprising further computer-executable instructions for the correspondent host to ~~performs~~ perform the steps of:

retrieving buffered communication data for the communication connection between the first and second applications prior to resetting the communication connection; and

10 sending the retrieved buffered communication data over the reset communication channel for the new address of the mobile host.

10. (Currently Amended) A computer-readable medium as in claim 8, comprising further computer-executable instructions for the correspondent host to ~~performs~~ perform the step of
15 tunneling communication data to the mobile host using the new address of the mobile host after receiving the notice of the new address of the mobile host and before completing the step of resetting.

11. (Original) A computer-readable medium as in claim 8, wherein the session establishment
20 protocol is the Session Initiation Protocol.

12. (Original) A computer-readable medium as in claim 8, wherein the transport protocol is the TCP.

25 13. (Original) A computer-readable medium as in claim 8, wherein the transport protocol is the UDP.

14. (Original) A method for a correspondent host to provide mobility support for communications with a mobile host, comprising the steps of:

receiving, by a mobility service of the correspondent host, a request from a first application on the correspondent host to set up a communication connection with a second application on the mobile host, the mobility service being implemented in an application programming interface (API) layer of an operating system of the correspondent host;

- 5 calling, by the mobility service, a session establishment service of the correspondent host implementing a session establishment protocol to establish a session with the mobile host;
- establishing, by the session establishment service, a session with the mobile host;
- setting up, by the mobility service, a communication connection under a transport protocol for communications between the first and second applications;
- 10 obtaining, by the session establishment service, a notice through operation of the session establishment protocol that the mobile host has moved to a new address;
- reestablishing, by the session establishment service, a session with the mobile host for the new address of the mobile host; and
- resetting, by the mobility service, a communication connection for the new address of the
- 15 mobile host.

15. (Original) A method as in claim 14, comprising further the steps of:

- retrieving buffered communication data for the communication connection between the first and second applications prior to resetting the communication connection; and
- 20 sending the retrieved buffered communication data over the reset communication channel for the new address of the mobile host.

16. (Original) A method as in claim 14, comprising further the step of tunneling communication data to the mobile host using the new address of the mobile host before completing the step of

25 resetting.

17. (Original) A method as in claim 14, wherein the session establishment protocol is the Session Initiation Protocol.

18. (Original) A computer-readable medium as in claim 14, wherein the transport protocol is the TCP.

19. (Original) A method as in claim 14, wherein the transport protocol is the UDP.

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20. (Original) A method as in claim 14, wherein the first application identifies the second application by a name in the request to form a communication connection.